

Attorney Docket No. NC 29331

Application of Heie et al.

- 1 1. A method for adjusting functions of an electronic device based on location
- 2 of the electronic device, the method comprising the steps of:
- 3 determining a current location of the electronic device;
- 4 determining a current sector associated with said current location;
- 5 evaluating said current sector to determine if one or more zone is
- 6 associated with said current sector; and
- 7 executing an action to adjust a function of the electronic device if
- 8 determined that at least one said zone is associated with said current
- 9 sector and said current location is within at least one said zone.
- 1 2. The method as claimed in claim 1, wherein the step of evaluating
- 2 comprises a step of defining parameters for at least one said zone.
- 1 3. The method as claimed in claim 2, wherein the step of defining said
- 2 parameters for at least one said zone comprises a step of associating said
- 3 zone to one or more sectors.
- 1 4. The method as claimed in claim 3, wherein the step of defining said
- 2 parameters for at least one said zone comprises a step of retrieving said
- 3 parameters from an external database.
- 1 5. The method as claimed in claim 3, wherein the step of defining said
- 2 parameters for at least one said zone comprises a step of receiving said
- 3 parameters in a said electronic device from a user of said electronic
- 4 device.
- 1 6. The method as claimed in claim 1, wherein the step of executing said
- 2 action comprises the step of turning off one or more transmitting functions
- 3 of the electronic device.
- 1 7. The method as claimed in claim 6, wherein the step of turning off the said
- 2 transmitting functions of the electronic device comprises the step of turning
- 3 off the said transmitting functions after a delay.

Attorney Docket No. NC 29331

Application of Heie et al.

1 8. The method as claimed in claim 1, wherein the step of executing said
2 action comprises the step of changing profile setting of the electronic
3 device to provide visual alert or vibrate alert without audio alert.

1 9. The method as claimed in claim 1, wherein the step of executing said
2 action comprises the step of increasing volume of an audio alert and
3 volume of a speaker.

1 10. The method as claimed in claim 1, wherein the step of executing
2 comprises the step of changing operation of all functions to preset default
3 modes if determined that said current location is not within at least one
4 said zone.

1 11. An electronic device operated in a wireless communication system, the
2 electronic device comprising:

3 a processor for determining a current position of the electronic device;
4 said processor further determining a current sector associated with said
5 current location; said processor further evaluating said current sector to
6 determine if one or more zone is associated with said current sector and
7 executing an action to adjust a function of the electronic device if
8 determined that at least one said zone is associated with said current
9 sector and said current location is within at least one said zone.

1 12. The electronic device as claimed in claim 11, further comprises:

2 a database coupled to said processor;

3 said processor further for defining parameters for at least one said zone
4 and storing parameters in said database.

1 13. The electronic device as claimed in claim 12, wherein said processor
2 further for associating said zone to one or more sectors.

1 14. The electronic device as claimed in claim 12, wherein said processor for
2 retrieving said parameters from an external database.

1 15. The electronic device as claimed in claim 12, further comprises:

2 an input device coupled to said processor; said input device for allowing
3 user to define said parameters for at least one said zone; and

4 said processor further for storing said parameters received from the user
5 through said input device into said memory.

1 16. The electronic device as claimed in claim 11, wherein said action
2 comprises a change to silent profile action, a change to default profile
3 action, a change to theater profile action, a change to hospital profile
4 action and a change to stadium action.

1 17. In a wireless communication system in which an electronic device is
2 receiving location information from at least one satellite, a method for
3 adjusting functions of the electronic device, comprising the acts of:

4 determining a current location of the electronic device using the location
5 information;

6 evaluating said current location to determine if said current location is
7 within at least one pre-defined zone; and

8 executing an action to adjust one or more functions of the electronic
9 device if determined that said current location is within said at least one
10 pre-defined zone.

1 18. The method of claim 17, wherein the act of executing said action
2 comprises the act of turning off one or more transmitting functions of the
3 electronic device.

1 19. The method of claim 17, wherein the act of evaluating said current location
2 comprises the act of defining parameters for at least one said zone and
3 storing said parameters in a database.

Attorney Docket No. NC 29331
Application of Heie et al.

- 1 20. The method of claim 17, wherein said act of executing comprises the act
- 2 of changing operation of all functions to preset default modes if determined
- 3 that said current location is not within said at least one pre-defined zone.